

# ncdu

ncdu is a great text-based user interface to manage your stored data.

## Prerequisite

Login to your service via SSH. See [How to connect to your Ultra.cc slot via SSH](#).

## GB v/s GiB

- The Disk Usage on the [User Control Panel](#) is represented in terms of **GB**. On the other hand, most applications display data size in terms of **GiB**.
- **1 GiB = 1.07374 GB**
- For example, if you are using **50 GiB** of storage space as seen from rTorrent, it will be shown as **54 GB** in your UCP, but it is the same amount of data, represented in different units.

## Usage Guide

### List all Directories and Files

- Execute the following SSH command:

```
ncdu -x ~/
```

- Optionally, if you wish to see the space usage in terms of **GB** instead of **GiB** you can use the following command instead:

```
ncdu -x --si ~/
```

- Ouput Example:

```
ncdu 1.13 ~ Use the arrow keys to navigate, press ? for
help
--- /home2/ultradocs
-----
 5.8 GiB [ #####]
/Stuff
 49.1 MiB [          ] /. apps
 41.5 MiB [          ] /bin
  7.8 MiB [          ] /. local
```

```

 4.3 MiB [          ] /downloads
420.0 KiB [          ] /.config
164.0 KiB [          ] /.cache
 16.0 KiB [          ] /media
 12.0 KiB [          ] /watch
 12.0 KiB [          ] /www
  8.0 KiB [          ] /.gnupg
  8.0 KiB [          ] /scripts
  8.0 KiB [          ] /.ssh
  4.0 KiB [          ] .bashrc
  4.0 KiB [          ] .bash_history
  4.0 KiB [          ] .profile
  4.0 KiB [          ] .bash_logout
  4.0 KiB [          ] .wget-hsts
  4.0 KiB [          ] .selected_editor
> 0.0 B [          ] /MergerFS

```

- You can now use the arrow keys on your keyboard to navigate the directory structure of your service.
- Highlight a file or folder using the arrow keys and press the **d** key to delete it.
- Press the **q** key to quit ncd.

## Exclude Certain Directories from the Scan

- Some directories contain a large number of small files which exponentially increase the amount of time taken for ncd to complete its initial scan.
- The most common directories that cause this are those of large Media Server Application metadata stores.
- To exclude them, run the following SSH command:

```
ncdu -x ~/ --exclude=/.config/plex --exclude=/.apps/emby --exclude=/.apps/jellyfin
```

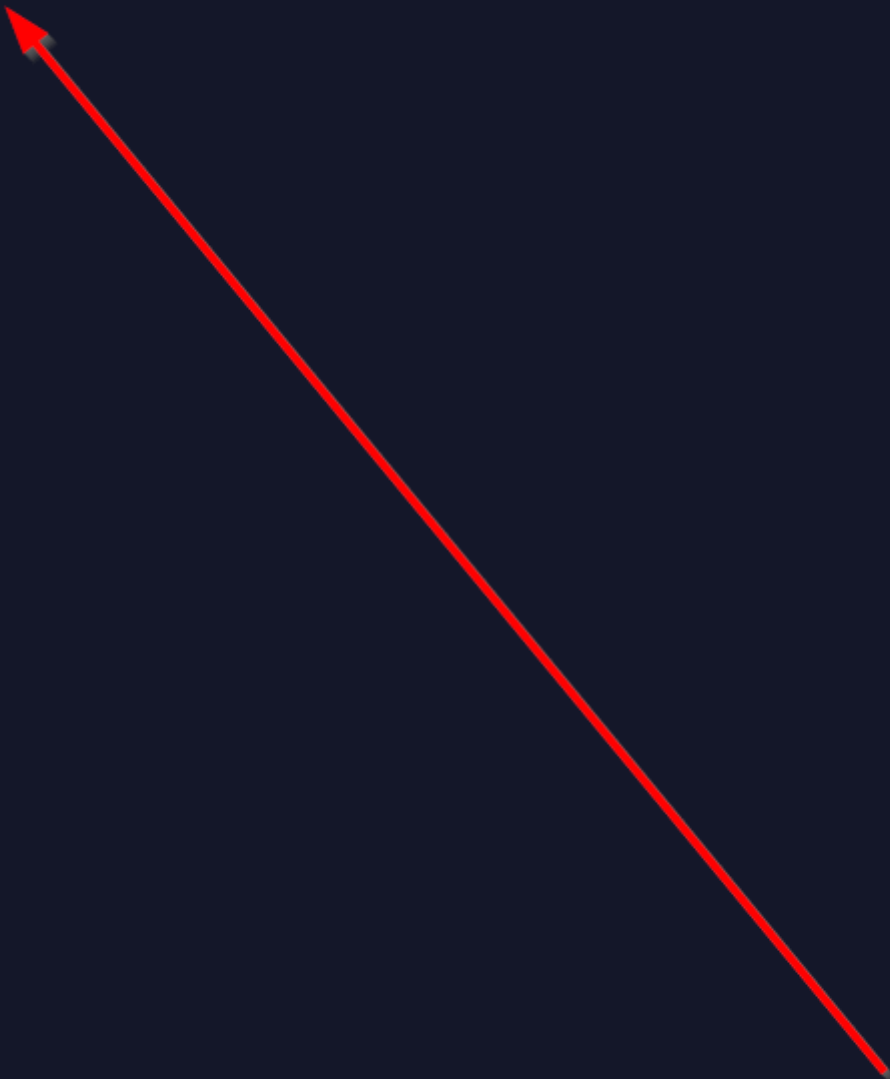
- ncd will now skip scanning the `~/.config/plex`, `~/.apps/emby`, and `~/.apps/jellyfin` directories.
- These directories if they exist, will appear empty.

## Use ncd to Confirm whether a File is a Hardlink or Not

- ncd also detects files which are hardlinks.
- Hardlinks will have a capital **H** symbol.
- Example:

```
ncdu 1.13 ~ Use the arrow keys to navigate, press ? for help
--- /home16/ultradocs/downloads/transmission -----
/..
H 2.9 GiB [#####] ubuntu-21.10-desktop-amd64.iso

Total disk usage: 2.9 GiB Apparent size: 5.8 GiB Items: 1
```



- This indicates that the file `ubuntu-21.10-desktop-amd64.iso` in `~/downloads/transmission` is a hardlink.
- Note that only files can be hardlinks. Directories cannot be hardlinks.

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